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Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)

Volume 8733, 2014, Pages 20-29

Fuzzy splicing systems (Article)

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Abstract

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In this paper we introduce a new variant of splicing systems, called fuzzy splicing systems, and establish some basic properties of language families generated by this type of splicing systems. We study the “fuzzy effect” on splicing operations, and show that the “fuzzification” of splicing systems can increase and decrease the computational power of splicing systems with finite components with respect to fuzzy operations and cut-points chosen for threshold languages. © Springer International Publishing Switzerland 2014.

Indexed keywords

Engineering
controlled terms:

Computational
power

Cut point

Fuzzifications

Fuzzy operation

Splicing operation

Splicing systems

Engineering main
heading:

Computational linguistics

ISSN: 03029743

Source Type: Book series

Original language: English

Document Type: Article

Publisher: Springer Verlag

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